

9.1/9.2 Review

Grade: 11th
Subject: Chemistry
Date: 2/27/13

Feb 20-7:51 AM

1 The starting substances in a chemical reaction are the

_____.

reactants

Feb 20-7:53 AM

2 The resulting substances of a chemical reaction are the _____.

products

Feb 20-7:53 AM

3 A _____ is the whole number written front of a substance in a chemical equation.

coefficient

Feb 20-7:54 AM

- 4 Balancing a chemical equation involves adjusting the coefficients until the number of atoms of each element is equal on both sides of the equation.

True

False

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- 5 Some _____ changes are evidence that a chemical reaction has occurred.

physical

Feb 20-7:56 AM

6 When balancing a chemical equation, can you adjust the subscript in a formula?

Yes

No

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7 A chemical reaction in which two or more substances (A and B) react to produce a single product (AB) is a Synthesis reaction.

Feb 24-5:28 PM

8 A chemical reaction that results in energy being released in the form of heat or light is a _____ reaction.

combustion

Feb 24-5:30 PM

9 A _____ reaction is one in which a single compound breaks down into two or more elements or new compounds.

decomposition

Feb 24-5:31 PM

10 A reaction in which the atoms of one element replace the atoms of another element in a compound is called a ~~double~~-replacement reaction.

single

True

False

Feb 24-5:32 PM

11 A solid produced during a chemical reaction in a solution is called a _____.

A product

B aqueous solution

C solute

D precipitate

Feb 24-5:33 PM

Chapter 9 Mixed Review

Grade: 11th
Subject: Chemistry
Date: 3/5/13

Feb 24-5:27 PM

- 1 Who feels that they have a good understanding about balancing chemical equations, net/complete ionic equations, and the rest of the material from this section?

Yes

No

Mar 6-8:07 AM

2 The law of conservation of mass requires what in a chemical reaction equation?

- A both sides of the equation to contain the same substances
- B the reactants to have the same amount of molecules as the products
- ☒ C both sides to have the same amount of atoms of each element
- D the products to have fewer molecules than the reactants

Mar 5-3:25 PM

3 Any reaction that gives off heat is what type of chemical reaction?

combustion

Mar 5-3:26 PM

4 Ions that are present in a solution and do not participate in a chemical reaction when another substance is added are called _____.

- ☒ A spectator ions
- ☐ B products
- ☐ C reactants
- ☐ D net ions

Mar 5-3:27 PM

5 A double replacement reaction produces all of the following except...

- ☐ A gases
- ☐ B solids
- ☒ C light
- ☐ D water

Mar 5-3:28 PM

6 What type of reaction is the following?



Mar 5-3:29 PM

7 A precipitate forms in a double replacement only if....

- A the reactivities of the compounds differ
- B the new compound is denser than water
- C the new compound is soluble in water
- ☒ D the new compound is not soluble in water

Mar 5-3:35 PM

8 A _____ is a statement that uses chemical formulas to show the identities and relative amounts of substances involved in a chemical reaction.

- A word equation
- B skeleton equation
- ☒ C chemical equation
- D balanced equation

Mar 5-3:36 PM

9 What type of reaction is the following?



Synthesis

Mar 5-3:37 PM

10 What reactions are essentially the opposite of synthesis reactions?

- A single replacement
- B combustion
- ☒ C decomposition
- D double replacement

Mar 5-3:38 PM

11 What type of reaction is the following?



Mar 5-3:38 PM

- 12 The process by which the atoms of one or more substances are rearranged to form different substances is called a _____.

chemical
reaction

Mar 6-4:03 PM

- 13 A _____ is a statement that uses chemical formulas to show the identities and relative amounts of the substances involved in a chemical reaction.

Reactants \rightarrow Products

∴

Mar 6-4:04 PM

- 14 A synthesis reaction is a chemical reaction in which two or more substances (A and B) react to produce a single product (AB).

True

False

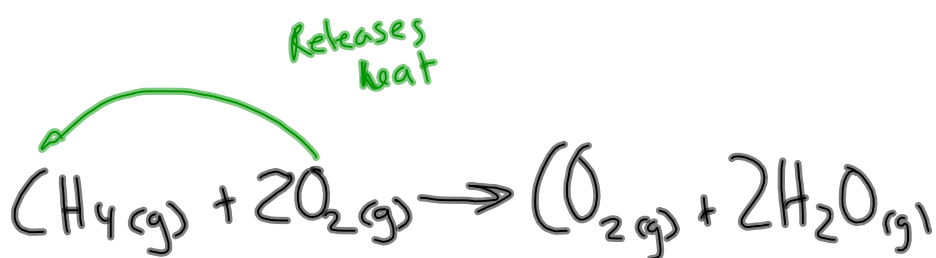


Mar 6-4:08 PM

- 15 In a ~~decomposition~~ ^{combustion} reaction, oxygen combines with a substance and releases energy in the form of heat or light.

True

False



Mar 6-4:10 PM

16 The example below is an example of an _____ reaction

A double replacement

B synthesis

C decomposition

☒ D single replacement



Mar 5-3:53 PM

17 A solid that is produced during a chemical reaction is a _____.

precipitate

Mar 6-4:18 PM

18 A solution in which the solvent is water is a(n) aqueous solution.

Mar 6-4:19 PM

19 A substance dissolved in a solution is the _____.

Solute

Mar 6-4:20 PM

20 An ion that is present but does not participate in a reaction is a spectator ion.

Mar 6-4:21 PM

21 An equation that shows all of the particles in solution as they actually exist is a complete ionic equation.

True

False

Mar 6-4:22 PM

22 The most plentiful substance in a solution is the solvent.

True

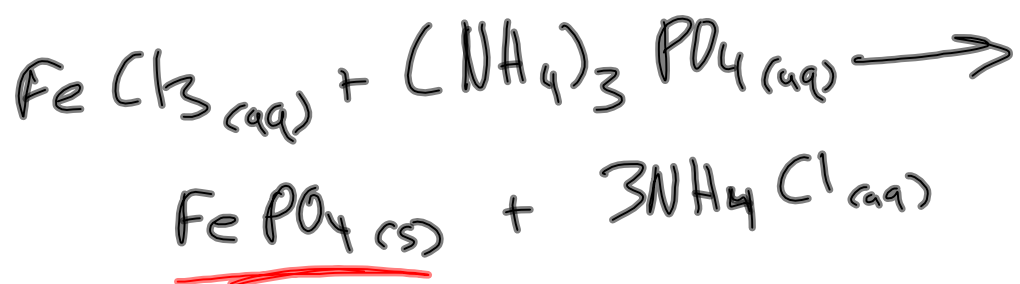
False

Mar 6-4:23 PM

23 An equation that includes only the particles that participate in the reaction is a _____ equation.

net ionic

Mar 6-4:24 PM



Mar 7-8:35 AM